

**STATE OF CALIFORNIA**  
California Energy Commission  
Minutes of the March 14, 2012 Energy Commission Business Meeting

The Meeting was called to order at 10:06 by Chair Robert B. Weisenmiller. The Pledge of Allegiance was led by Chair Weisenmiller.

Present:

Robert B. Weisenmiller, Chair  
Karen Douglas, Commissioner

Carla J. Peterman, Commissioner

1. CONSENT CALENDAR. (Items on the Consent Calendar will be taken up and voted on as a group. A commissioner may request that an item be moved and discussed later in the meeting.)
  - a. CITY OF CHULA VISTA. Possible approval of the City of Chula Vista's locally adopted building energy standards to require greater energy efficiency than the *2008 Building Energy Efficiency Standards*. Contact: Joe Loyer.
  - b. CITY OF LATHROP. Possible approval of Amendment 1 to Agreement CBG-09-023 with the City of Lathrop to allow the city to purchase and install four additional HVAC units and energy efficient lighting at the Lathrop Community Center and help fund the replacement of the boiler at City Hall. The City has \$61,454 of the original grant of \$93,700 still available after completion of the original Agreement items and would like to use the funds for these additional measures. (ARRA funding.) Contact: Barry McLeod.
  - c. CITY OF EL SEGUNDO. Possible approval of Amendment 1 to Agreement CBG-09-155 with the City of El Segundo to change the scope of work by removing HVAC work in favor of additional interior and exterior lighting retrofit items at various city-owned locations throughout El Segundo. Dual technology occupancy sensor switches would also be added to three buildings. The City requests a time extension until June 14, 2012 to complete the project. The grant amount remains \$90,691. (ARRA funding.) Contact: Barry McLeod.
  - d. CITY OF SEASIDE. Possible approval of a change in scope under Amendment 1 to Agreement CBG-09-036 with the City of Seaside. The City originally proposed retrofitting its streetlights, traffic and pedestrian signals city-wide under the Direct Equipment Purchase Program. Instead, the grant funds will be used to upgrade streetlights, interior lights, exterior lights, and exit signs to more efficient lights and install lighting controls under the Energy Efficiency Program. (ARRA funding.) Contact: Joji Castillo.
  - e. CITY OF WILDOMAR. Possible approval of Amendment 2 to Agreement CBG-09-114 with the City of Wildomar for a change of scope that cancels the LED parking lot lighting project, but adds illuminated street signs. A budget change is needed to reduce the total grant amount from \$134,140 to \$134,118. (ARRA funding) Contact: Elizabeth Shirakh.

- f. UTILITY SAVINGS AND REFUND, LLC. Possible approval of Amendment 1 to Agreement PIR-10-023 with Utility Savings and Refund, LLC to change the venue and utility partner for the project. The amendment will move the demonstration of a vanadium redox flow battery from the Dublin/San Ramon Wastewater Treatment Facility located in Pleasanton, California to the Gills Onion processing facility located in Oxnard, California. The amendment will also change the utility partner from Pacific Gas and Electric to Southern California Edison. (PIER electricity funding.) Contact: Paul Roggensack.
- g. COULOMB TECHNOLOGIES. Possible approval of Amendment 1 to Agreement ARV-09-007 with Coulomb Technologies for a no-cost time extension of eight months to give the recipient additional time to complete its tasks. Coulomb Technologies is expected to provide 1,850 networked electric vehicle charging stations to the San Francisco, Sacramento and Los Angeles regions. Residential installations have been slower than expected due to vehicle production constraints from the Japanese tsunami. The additional time will allow Coulomb to catch up with residential installations as more battery electric vehicles become available. The new term end date of the agreement is requested to be December 30, 2013. (ARFVT funding.) Contact: Jared Cacho.
- h. MOTIV POWER SYSTEMS, INC. Possible approval of Amendment 1 to Agreement ARV-09-015 for a no-cost time extension of six months to December 30, 2012, and budget reallocation for the Motiv Power Systems, Inc. prototype electric shuttle bus project. Critical work that was originally slated for subcontractors will be conducted in-house by Motiv Power Systems, Inc. and will require additional time. (ARFVT funding.) Contact: Jared Cacho.
- i. CUMMINS, INC. Possible approval of Amendment 1 to Agreement ARV-10-044 with Cummins, Inc. to extend the agreement by six months to accommodate delays caused by budget changes, including additional match funding and a change in the size of the “downsized” engine. Cummins will develop and demonstrate a low-carbon emission powertrain with a specially designed E-85 engine and a dedicated hybrid drive system. There are no changes to the amount of the grant. (ARFVT funding.) Contact: Eric VanWinkle.
- j. ALTEX TECHNOLOGIES CORPORATION. Possible approval of Amendment 1 to Agreement PIR-09-012 with Altex Technologies Corporation to reallocate reimbursable budget funds to reflect revised project team capabilities. There is no time extension and no funds are being added. (PIER electricity funding.) Contact: Mike Kane.
- k. KEMA, INC. Possible approval of Amendment 2 to Contract 400-07-030 with Kema, Inc. for a no-cost time extension of 20 months to April 30, 2013 to complete current projects and to fulfill program obligations. The contract supports developing policies and protocols, analyzing the renewable industry and market context, and ensures the effectiveness of the overall Renewable Energy Program. (RRTF funding.) Contact: Otto Tang.
- l. CROCKETT COGENERATION PROJECT (92-AFC-1C). Possible approval of Crockett Cogeneration’s petition to amend the Crockett Cogeneration project by installing electric motor-driven natural gas compression equipment. Contact: Joan Walter.

- m. ORANGE GROVE ENERGY PROJECT (08-AFC-4C). Possible approval of the Orange Grove L.P. petition to modify the Orange Grove Energy Project to comply with San Diego Air Pollution Control District staff's recommended changes to the Authority to construct conditions. Contact: Joseph Douglas.

*Item 1e was changed from 'Amendment 1' to Amendment 2. Item 1k was changed from a time extension of 20 months to a time extension of 12 months, ending April 30, 2013. Commissioner Douglas moved and Commissioner Peterman seconded approval of the Consent Calendar with changes as noted. The vote was unanimous. (3-0)*

2. ENERGY COMMISSION COMMITTEE APPOINTMENTS. Possible approval of appointments to the Energy Commission's Standing Committees and Siting Case Committees. Contact: Kevin Barker. (5 minutes)

*No action was taken on Item 2.*

3. COMPLAINT AGAINST AND REQUEST FOR INVESTIGATION OF CalCERTS, INC. (Docket No. 12-CAI-01): Possible appointment of an Energy Commission committee to conduct proceedings as set forth in Commission Regulations sections 1675 and 1230 and following, on the complaint against and request for investigation of CalCERTS, Inc., filed on behalf of Erik Hoover and Patrick Davis relating to their Rater certification under the Energy Commission's California Home Energy Rating System Program. Contact: Caryn Holmes (5 minutes)

*Chair Weisenmiller appointed Commissioner Douglas and Commissioner Peterman to the committee for the proceeding, Commissioner Douglas to preside. Commissioner Douglas moved and Commissioner Peterman seconded approval of the appointment. The vote was unanimous. (3-0)*

4. STARWOOD POWER PLANT (06-AFC-10C). Possible approval of Starwood Power-Midway, LLC's petition to modify air quality conditions for the Starwood Power Project to allow the plant an annual limit on nitrogen oxides (NOx) of 50,000 pounds per year. Contact: Eric Veerkamp. (10 minutes)

*Commissioner Douglas moved and Commissioner Peterman seconded approval of the petition. The vote was unanimous. (3-0)*

5. RMA CONSULTING GROUP, INC. Possible approval of Purchase Order 11-409-011 to RMA Consulting Group, Inc. for \$98,000 to provide expertise and guidance in the development and use of a Master Project Plan to help the Energy Commission's Information Technology Services Branch identify and plan its resources in support of its projects and activities. (ERPA funding.) Contact: Steve Bonta. (5 minutes)

*Commissioner Douglas moved and Commissioner Peterman seconded approval of Item 5. The vote was unanimous. (3-0)*

6. GOLDEN VALLEY UNIFIED SCHOOL DISTRICT. Possible approval of Agreement 001-11-ECE for a loan of \$3 million to the Golden Valley Unified School District to implement its solar photovoltaic (PV) project. The project includes installing a total capacity of 1.12 megawatts of solar PV at the district office and four schools. The solar

PV systems are estimated to produce a total of 1,725,114 kilowatt-hours annually, which translates to approximately \$295,408 of annual cost savings for the school district. The payback period is 10.2 years based on the loan amount. (ECAA funding.) Contact: Cheng Moua. (5 minutes)

*Commissioner Peterman moved and Commissioner Douglas seconded approval of Item 6. The vote was unanimous. (3-0)*

7. PHASE 2 ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANT (EECBG). Possible approval of six block grants to small cities for energy efficiency projects. No funds are currently available under the Phase 2 EECBG program. However, as funds become available they will be allocated to these Phase 2 grants on a first-come, first-served basis. (ARRA funded). Contact: Haile Bucaneg. (10 minutes)
  - a. CITY OF LAGUNA WOODS. Possible approval of Agreement CBG-11-001 for a grant up to \$100,000 to the City of Laguna Woods to install induction streetlights to replace high pressure sodium streetlights. This project is estimated to save 81,888 kilowatt hours and reduce annual greenhouse gas (GHG) emissions by approximately 28 tons. (Project Manager: Adel Suleiman)
  - b. CITY OF MARYSVILLE. Possible approval of Agreement CBG-11-002 for a grant of up to \$447,790 to the City of Marysville to install LED streetlights to replace high pressure sodium and metal halide streetlights. This project is estimated to save 335,000 kilowatt hours annually and reduce annual GHG emissions by approximately 115 tons. (Project Manager: Akasha Kaur Khalsa)
  - c. CITY OF EAST PALO ALTO. Possible approval of Agreement CBG-11-003 for a grant of up to \$247,231 to the City of East Palo Alto to install LED streetlights to replace high pressure sodium, low pressure sodium, and metal halide streetlights. This project is estimated to save 94,870 kilowatt-hours annually, and reduce annual GHG emissions by approximately 32 tons. (Project Manager: Shahid Chaudhry)
  - d. CITY OF RIVERBANK. Possible approval of Agreement CBG-11-004 for a grant of up to \$539,614 to the City of Riverbank to install LED streetlights to replace high pressure sodium streetlights. This project is estimated to save 430,800 kilowatt hours and reduce annual GHG emissions by approximately 148 tons. (Project Manager: Anne Fisher)
  - e. CITY OF SAUSALITO. Possible approval of Agreement CBG-11-005 for a grant of up to \$126,019 to the City of Sausalito to install LED streetlights to replace high pressure sodium and metal halide streetlights. This project is estimated to save approximately 110,000 kilowatt hours annually and reduce annual GHG emissions by approximately 38 tons. (Project Manager: Haile Bucaneg)
  - f. CITY OF LEMOORE. Possible approval of Agreement CBG-11-006 for a grant of up to \$635,144 to the City of Lemoore to install LED streetlights to replace high pressure sodium streetlights. This project is estimated to save 232,349 kilowatt hours and reduce annual GHG emissions by approximately 80 tons. (Project Manager: Amir Ehyai)

*Commissioner Douglas moved and Commissioner Peterman seconded approval of Item 7. The vote was unanimous. (3-0)*

8. REDWOOD COAST ENERGY AUTHORITY. Possible approval of Agreement ARV-11-006 for a grant of \$199,949 to the Redwood Coast Energy Authority to produce a comprehensive Plug-In Electric Vehicle (PEV) Readiness Plan for the tri-county North Coast Region. The plan will support the mass adoption of electric vehicles by developing plans for PEV infrastructure deployment, streamlining of permitting, installation and inspection processes, and consumer education and outreach in the region. (ARFVTP funding.) Contact: Jared Cacho. (5 minutes)
9. SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT. Possible approval of Agreement ARV-11-008 for a grant of \$200,000 to the San Joaquin Valley Unified Air Pollution Control District to produce a comprehensive Plug-In Electric Vehicle (PEV) Readiness Plan for the seven-county region. The plan will support the mass adoption of electric vehicles by developing plans for PEV infrastructure deployment, streamlining of permitting installation and inspection processes, and consumer education and outreach in the region. (ARFVTP funding.) Contact: Jared Cacho. (5 minutes)

*Commissioner Peterman moved and Commissioner Douglas seconded approval of Items 8 and 9. The vote was unanimous. (3-0)*

10. SAN DIEGO GAS AND ELECTRIC CO. Possible approval of Agreement PIR-11-003 for a grant of \$1 million to San Diego Gas and Electric to install an advanced, wireless communications system to monitor and control smart grid devices. This award will be cost-share for the recipient's \$28.1 million American Recovery and Reinvestment Act of 2009 award. (PIER electricity funding.) Contact: Consuelo Sichon. (5 minutes)

*Commissioner Douglas moved and Commissioner Peterman seconded approval of Item 10. The vote was unanimous. (3-0)*

11. SAN FRANCISCO MAYOR'S OFFICE OF HOUSING. Possible approval of Amendment 2 to Contract 400-09-019 with the San Francisco Mayor's Office of Housing (SFMOH) for the Bay Area Multifamily Fund Program. The program provides financing through a revolving loan fund for energy efficiency and renewable generation retrofits of affordable multifamily housing buildings in the Bay Area. The amendment will ensure that the Energy Commission can still enforce the U.S. Department of Energy requirements for the revolving loan fund aspects of the contract after April 30, 2012. The amendment will also realign the remaining funding, and provide a budget and matching scope of work for the extended administration and implementation of the program by SFMOH through April 30, 2013. Revisions will be made to the statement of work, budget, and terms and conditions. (ARRA funding.) Contact: Adrian Ownby. (10 minutes)

*Commissioner Douglas moved and Commissioner Peterman seconded approval of Item 11. The vote was unanimous. (3-0)*

12. UNIVERSITY OF CALIFORNIA LOS ANGELES. Possible approval of Contract 500-11-013 for \$499,999 with the Regents of the University of California on behalf of

the Los Angeles Campus to implement auto demand response with the campus WINSmartGrid communication platform. Research will determine the most effective methods of deploying demand response based on the behavior of the campus residential consumers. (PIER electricity funding.) Contact: Mike Gravely. (5 minutes)

*Commissioner Douglas moved and Commissioner Peterman seconded approval of Item 12. The vote was unanimous. (3-0)*

13. ALTERNATIVE AND RENEWABLE FUEL AND VEHICLE TECHNOLOGY BUY-DOWN INCENTIVE RESERVATIONS. Possible approval of a total of \$8,554,000 in vehicle buy-down incentive reservations (ARFVT funding). Contact: Andre Freeman.
  - a. CRANE CARRIER COMPANY (BDIR-11-15) in the amount of \$884,000 for the buy-down of 34 natural gas vehicles of 26,000 pounds gross vehicle weight and greater (fuel tank capacity less than 190 Liquefied Natural Gas or 90 Diesel Gallon Equivalent).
  - b. KENWORTH TRUCK COMPANY (BDIR-11-16) in the amount of \$884,000 for the buy-down of 34 natural gas vehicles of 26,000 pounds gross vehicle weight and greater (fuel tank capacity of less than 190 Liquefied Natural Gas or 90 Diesel Gallon Equivalent).
  - c. NAVISTAR, INC. (BDIR-11-17) in the amount of \$400,000 for the buy-down of 20 natural gas vehicles of 14,001 to 26,000 pounds gross vehicle weight and \$884,000 for the buy-down of 34 natural gas vehicles of 26,000 pounds gross vehicle weight and greater (fuel tank capacity less than 190 Liquefied Natural Gas or 90 Diesel Gallon Equivalent) for a total reservation amount of \$1,284,000.
  - d. ARATA EQUIPMENT COMPANY (OEM – American LaFrance), (BDIR-11-18), in the amount of \$884,000 for the buy-down of 34 natural gas vehicles of 26,000 pounds gross vehicle weight and greater (fuel tank capacity less than 190 Liquefied Natural Gas or 90 Diesel Gallon Equivalent).
  - e. PETERBILT MOTORS COMPANY (BDIR-11-19), in the amount of \$884,000 for the buy-down of 34 natural gas vehicles of 26,000 pounds gross vehicle weight and greater (fuel tank capacity less than 190 Liquefied Natural Gas or 90 Diesel Gallon Equivalent).
  - f. AUTOCAR, LLC (BDIR-11-20), in the amount of \$884,000 for the buy-down of 34 natural gas vehicles of 26,000 pounds gross vehicle weight and greater (fuel tank capacity less than 190 Liquefied Natural Gas or 90 Diesel Gallon Equivalent).
  - g. GREENKRAFT, INC. (BDIR-11-21), in the amount of \$400,000 for the buy-down of 20 natural gas vehicles of 14,001 to 26,000 pounds gross vehicle weight.
  - h. TOWNE FORD (BDIR-11-22), in the amount of \$80,000 for the buy-down of 10 natural gas vehicles of 8,501 to 14,000 pounds gross vehicle weight.
  - i. A-Z BUS SALES, INC. - OEM – Blue Bird (BDIR-11-23), in the amount of \$384,000 for the buy-down of 12 natural gas vehicles of 26,000 pounds gross

vehicle weight and greater (fuel tank capacity of at least 190 Liquefied Natural Gas or 90 Diesel Gallon Equivalent) and \$500,000 for the buy-down of 25 propane school buses of 14,001 pounds gross vehicle weight and greater, for a total reservation amount of \$884,000.

- j. A-Z BUS SALES, INC. - OEM – Collins Bus Corporation (BDIR-11-24), in the amount of \$500,000 for the buy-down of 25 propane school buses of 14,001 pounds gross vehicle weight and greater.
- k. A-Z BUS SALES, INC. - OEM – ARBOC (BDIR-11-25), in the amount of \$200,000 for the buy-down of 10 natural gas vehicles of 14,001 to 26,000 pounds gross vehicle weight.
- l. BIG VALLEY FORD (BDIR-11-26), in the amount of \$84,000 for the buy-down of 14 propane vehicles of 8,501 to 14,000 pounds gross vehicle weight.
- m. HANSEL FORD, INC. (BDIR-11-27), in the amount of \$56,000 for the buy-down of seven natural gas vehicles of 8,501 to 14,000 pounds gross vehicle weight.
- n. SERRAMONTE FORD (BDIR-11-28), in the amount of \$64,000 for the buy-down of eight natural gas vehicles of 8,501 to 14,000 pounds gross vehicle weight.
- o. GALPIN MOTORS, INC. dba GALPIN FORD (BDIR-11-29), in the amount of \$96,000 for the buy-down of 16 propane vehicles of 8,501 to 14,000 pounds gross vehicle weight and \$80,000 for the buy-down of 8 propane vehicles of 14,001 to 26,000 pounds gross vehicle weight, for a total reservation amount of \$176,000.
- p. TUTTLE-CLICK FORD (BDIR-11-30), in the amount of \$18,000 for the buy-down of three propane vehicles of 8,501 to 14,000 pounds gross vehicle weight.
- q. BONANDER BUICK GMC - OEM – General Motors (BDIR-11-31), in the amount of \$190,000 for the buy-down of 19 propane vehicles of 14,001 to 26,000 pounds gross vehicle weight.
- r. AMERICAN HONDA MOTOR COMPANY, INC. (BDIR-11-32) in the amount of \$198,000 for the buy-down of 66 natural gas vehicles of up to 8,500 pounds gross vehicle weight.

*Commissioner Peterman moved and Commissioner Douglas seconded approval of Item 13. The vote was unanimous. (3-0)*

- 14. APPLICATION FOR A COMPLIANCE OPTION FOR THE ALTHERMA AIR-TO-WATER SOURCE HEAT PUMP. Possible approval of a Compliance Option that would establish the equipment efficiency ratings necessary to calculate performance of the Altherma heat pump system for combined space heating, space cooling, and water heating. The compliance option will show compliance with the residential building energy performance path under the Building Energy Efficiency Standards. The application for a Compliance Option has been submitted by the manufacturer of the system, Daiken AC (Americas), Inc., and is consistent with the Compliance Options procedures in Section 10-109 of the Standards. Contact: David W. Ware. (10 minutes)

*The Commission received public comments from those present on Item 14, however in the interest of ensuring all stakeholders receive adequate notice, the item was continued to the March 28 Business Meeting.*

15. **PUBLIC INTEREST ENERGY RESEARCH (PIER) ANNUAL REPORT.** Possible approval of the Public Interest Energy Research (PIER) 2011 Annual Report to the Legislature. Contact: Laurie ten Hope. (10 minutes)

*Commissioner Douglas moved and Commissioner Peterman seconded approval of the report. The vote was unanimous. (3-0)*

16. **APPLIANCE EFFICIENCY REGULATIONS ORDER INSTITUTING RULEMAKING** Possible approval of an Order Instituting Rulemaking to begin a multiple phase proceeding to amend the Energy Commission's Appliance Efficiency Regulations in Title 20 of the California Code of Regulations. The potential appliances to be considered for efficiency standards and other regulations include but are not limited to consumer electronics; residential, commercial, and outdoor lighting; water-using appliances and fixtures; and other household appliances or "white goods." Contact: Mike Leao. (15 minutes)

*Commissioner Douglas moved and Commissioner Peterman seconded approval of the Order Instituting Rulemaking, as verbally amended during today's meeting. The vote was unanimous. (3-0)*

17. **Minutes:**

- a. Possible approval of the February 8, 2012, Business Meeting Minutes.

*Commissioner Peterman moved and Commissioner Douglas seconded approval of the February 8 Minutes. The vote was unanimous. (3-0)*

- b. Possible approval of the February 13, 2012, Business Meeting Minutes.

*Commissioner Peterman moved and Commissioner Douglas seconded approval of the February 13 Minutes. The vote was unanimous. (3-0)*

18. **Lead Commissioner or Presiding Member Reports.**

Commissioner Douglas reported on the two days of Title 24 workshops just completed and the Lessons Learned workshop on power plant licensing that included participants from the Bureau of Land Management, Department of Fish and Game, utilities industry, and other interested parties.

Commissioner Peterman reported on the workshop on the draft RPS regulations, the 2012 IEPR update and the meeting of the AB118 Investment Plan Advisory Group.

19. **Chief Counsel's Report:** None.

20. **Executive Director's Report.** Executive Director Robert P. Oglesby gave the report.



21. **Public Adviser's Report.** None.

22. **Public Comment:** Mr. Al Zeller (by telephone)

Appearances:

Ms. Amy Blumberg, Tech America

Mr. Jon Costantino, Tech America

Mr. Pierre DelForge, Natural Resources Defense Council

Mr. Nate Dewart, Energy Solutions (by telephone)

Mr. J. J. Fair, Starwood Power

Ms. Jane Luckhardt, CalCERTS

Mr. Corey McClellan, San Diego Gas and Electric (by telephone)

Mr. George Nesbitt, Cal HERS (by telephone)

Ms. Tamara Rasberry, Sempra Energy Utilities

Mr. Lee Smith, Daiken (by telephone)

Mr. Patrick Splitt, App-Tech, Inc.

Mr. Mark Stanga, Daiken AC (Americas)

Mr. Chuck White, Waste Management, California Natural Gas Vehicle Coalition

Mr. Tommy Young, E3 Norcal

Mr. Frank Ziegler, GreenKraft

There being no further business, the meeting was adjourned at 3:32 p.m.

Respectfully submitted,

HARRIET KALLEMEYN  
Secretary to the Commission